

Claims

1. A flexible or semi-flexible packaging material with an oxygen barrier between 10 and 100 cc/m² atm and a water vapor barrier between 100 and 1000 g/m² d at 38°C and 90% relative humidity comprising

(a) a layer of paper having a weight between 20 and 400 g/m²

10 (b) a layer of ethylene copolymer or grafted ethylene copolymer having a weight between 1 and 5 g/m² adjacent to layer (a), and

15 (c) a layer of nylon comprising between 5 and 100 weight % of amorphous nylon and 0 and 95 weight % semicrystalline polyamide 6 having a weight between 10 and 30 g/m² adjacent to layer (b).

2. The packaging material of claim 1 wherein the ethylene copolymer of layer (b) is ethylene vinyl acetate, ethylene-ethyl acrylate, ethylene-methyl acrylate or ethylene butyl acrylate.

3. The packaging material of claim 1 wherein the ethylene copolymer of layer (b) is an ethylene-acid copolymer or its corresponding ionomer.

4. The packaging material of claim 1 wherein the grafted ethylene copolymer of layer (b) is a maleic anhydride grafted ethylene copolymer.

5. The packaging material of any one of claims 1 to 4 wherein layer (b) further comprises up to 40 weight % of a copolyether ester, a copolyether amide or a polyurethane thermoplastic.

30 6. The packaging material of any one of claims 1 to 5 which is produced by coextrusion coating layers (b) and (c) onto layer (a).

35 7. The packaging material of any one of claims 1 to 5 which is produced by lamination of extruded or coextruded layers (b) and (c) onto layer (a).